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ABSTRACT

This book demonstrates, for teachers at all levels, applications of technology tools for the effective learning and teaching of mathematical skills and concepts as suggested by the National Council of Teachers of Mathematics (NCTM). It focuses on the use of general-purpose computer tools in the mathematics classroom, with an emphasis on problem solving. The first chapter introduces general-purpose computer software tools, mathematical problem-solving, and strategies for using computer tools to enhance the problem-solving process. The next five chapters discuss in detail the use of each of the following types of tools in the mathematics classroom: (1) spreadsheets; (2) data base programs; (3) word processors, desktop publishing programs, and graphics packages; (4) the Logo programming language; and (5) the BASIC programing language. The final chapter is an overview of the use of other technology, such as calculators and video. Each chapter contains activities, a bibliography, discussion questions, and two or more supplementary articles written by other authors that relate to the topics discussed in the chapter. (KRN)

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